U4
SSD1306

Pin	Name	
14	VCC	+3.3V
13	VCOMH	
12	IREF	
11	SDA	
10	SCL	
9	RES	
8	VDD	+3.3V
7	VSS	GND
6	NC	
5	VDDB	
4	C1N	
3	C1P	
2	C2N	
1	C2P	

R1 4.7k +3.3V
R2 4.7k +3.3V

U1
ESP32-DEVKIT-V1

30	VIN	3V3	1	+3.3V
16	EN			
17	VP	RX0	12	
18	VN	TX0	13	
		RX2	6	
		TX2	7	
4	D2	D22	14	
5	D4	D23	15	
8	D5	D25	23	
27	D12	D26	24	
28	D13	D27	25	
26	D14	D32	21	
3	D15	D33	22	
9	D18	D35	20	
10	D19	D34	19	
11	D21			
	GND		2	GND

U3

16	16(SDA)	12(SETC)	12	
15	15(DRDY)			
14	14(NC)	11(GND)	11	GND
13	13(VDDIO)	10(C1)	10	
1	1(SCL)	9(GND)	9	GND
2	2(VDD)			+3.3V
3	3(NC)			
4	4(S1)			
5	5(NC)			
6	6(NC)			
7	7(NC)			
8	8(SETP)			

+3.3V

D1
LED_ARGB

R3 330
R4 330
R5 330

GND

SW1
SW_Push
GND

SW2
SW_Push
GND

U2
NEO-6M-GPS

23	VCC	+3.3V
7	VDDUSB	
22	V_BCKP	
21	RXD1	
20	TXD1	
3	TIMEPULSE	
9	VCC_RF	
19	SCL2	
18	SDA2	
8	RSVD_8	
17	RSVD_17	
10	GND	GND
4	EXTINT0	
11	RF_IN	
2	SS_N	
16	CFG_GPS0/SCK	
15	MISO/CFG_COM1	
14	MOSI/CFG_COM0	
5	USB_DM	
6	USB_DP	

C5 0.1 +3.3V GND
C2 0.1 +3.3V GND
C4 10 +3.3V GND
C1 0.1 +3.3V GND

Sheet: /
File: Circuit.kicad_sch
Title: Jolt Locator
Size: A4   Date: 2025-12-17   **Rev: v2.1**
KiCad E.D.A. 9.0.6   Id: 1/1